

(19) World Intellectual Property
Organization
International Bureau



03 DEC 2004



(43) International Publication Date
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number
WO 2004/002156 A1

(51) International Patent Classification⁷: H04N 7/173, 7/16

(21) International Application Number:
PCT/GB2003/002708

(22) International Filing Date: 20 June 2003 (20.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 7
0214444.2 21 June 2002 (21.06.2002) GB

(71) Applicant (for all designated States except US): ALCA-
TEL [FR/FR]; 54, rue La Boétie, F-75008 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MCEVILLY; Chris
[IE/GB]; 28 Butler Road, Bagshot, Surrey GU19 5QF
(GB). HAQUE, Shaheedur, Reza [GB/GB]; 7 Carbery
Avenue, Acton, London W3 9AD (GB).

(74) Agents: BERESFORD, Keith, Denis, Lewis et al.; Beres-
ford & Co., 16 High Holborn, London WC1V 6BX (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, YU, ZA, ZM, ZW.

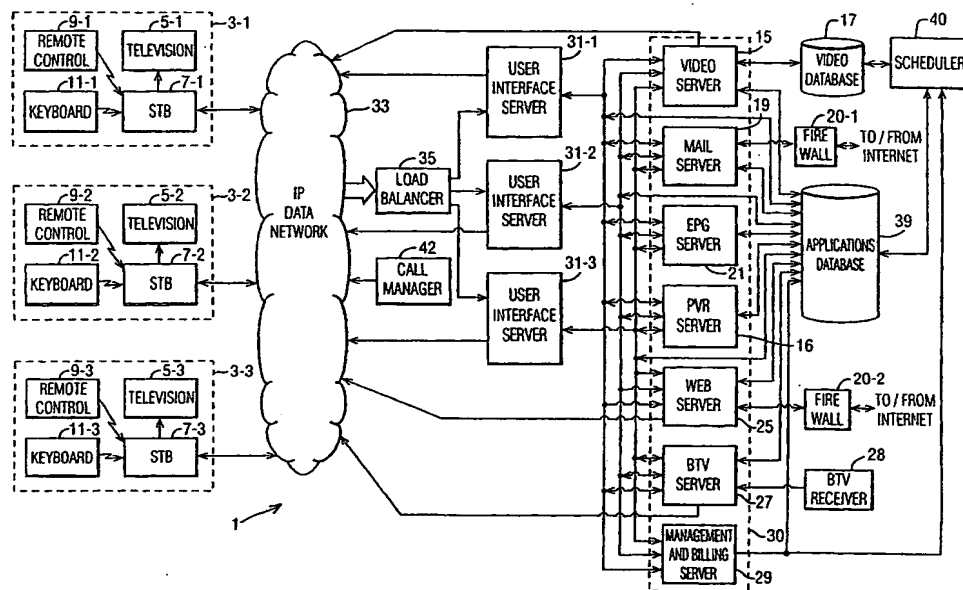
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: RECORDING AND PLAYBACK SYSTEM



(57) Abstract: An interactive television system is provided which provides personal video recorder services for users. In the embodiment described, content is recorded at a head-end of the system and stored in the user's set top box for future payout. Access to the content stored in the user's set top box is also controlled by the head end.

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/02708

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04N7/173 H04N7/16		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 91 03112 A (DELTA BETA PTY LTD) 7 March 1991 (1991-03-07)	1, 44, 48, 51, 70, 106
A	the whole document	2-43, 45-47, 49, 50, 52-69, 71-105, 107-147
----- -/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search 17 November 2003		Date of mailing of the international search report 26/11/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Greve, M

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Internat	Application No
PCT/GB	03/02708

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97 48230 A (STARSIGHT TELECAST INC) 18 December 1997 (1997-12-18)	1,44,48, 51,70, 106
A	page 4, line 19 - page 23, line 29	2-43, 45-47, 49,50, 52-69, 71-105, 107-147
A	----- WO 01 56285 A (GLAD WILLIAM E ; BERBERET SUZANNE M (US)) 2 August 2001 (2001-08-02) the whole document	1-147
A	----- WO 01 74076 A (AMORIM CLAUDIO LUIS ; ISHIKAWA EDSON (BR); COPPE UFRJ COORDENACAO DOS) 4 October 2001 (2001-10-04) page 4, line 21 - page 6, line 2	1-147
A	----- WO 02 23909 A (ANDERSSON PER JOHAN ; ZERVAS KONSTANTIN (SE); CARLSSON MAGNUS (SE); ME) 21 March 2002 (2002-03-21) abstract	1-147
A	----- WO 02 07439 A (THIRDSPACE LIVING LTD ; NCUBE CORP (US)) 24 January 2002 (2002-01-24) page 11, line 9 - page 12, line 6	1-147

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat Application No

PCT/GB 03/02708

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9103112	A	07-03-1991	AT 154182 T	15-06-1997
			AU 645028 B2	06-01-1994
			WO 9103112 A1	07-03-1991
			CA 2064855 A1	24-02-1991
			DE 69030886 D1	10-07-1997
			DE 69030886 T2	05-03-1998
			DK 573406 T3	29-12-1997
			EP 0573406 A1	15-12-1993
			ES 2104609 T3	16-10-1997
			JP 3079208 B2	21-08-2000
			KR 184237 B1	15-05-1999
			RU 2106758 C1	10-03-1998
			US 5421031 A	30-05-1995
			US 5701582 A	23-12-1997
			US 6519693 B1	11-02-2003
WO 9748230	A	18-12-1997	AU 3294997 A	07-01-1998
			WO 9748230 A1	18-12-1997
			US 6133909 A	17-10-2000
WO 0156285	A	02-08-2001	AU 2964401 A	07-08-2001
			WO 0156285 A1	02-08-2001
WO 0174076	A	04-10-2001	BR 0001810 A	13-11-2001
			AU 4626101 A	08-10-2001
			WO 0174076 A1	04-10-2001
			US 2003093803 A1	15-05-2003
WO 0223909	A	21-03-2002	EP 1187485 A1	13-03-2002
			AT 236489 T	15-04-2003
			AU 8461601 A	26-03-2002
			AU 8635801 A	26-03-2002
			CN 1456013 T	12-11-2003
			DE 60001941 D1	08-05-2003
			EP 1187481 A2	13-03-2002
			ES 2191605 T3	16-09-2003
			WO 0223909 A1	21-03-2002
			WO 0223910 A1	21-03-2002
WO 0207439	A	24-01-2002	AU 7787501 A	30-01-2002
			BR 0112418 A	08-07-2003
			CA 2415385 A1	24-01-2002
			CN 1452839 T	29-10-2003
			EP 1300014 A1	09-04-2003
			TW 535437 B	01-06-2003
			WO 0207439 A1	24-01-2002